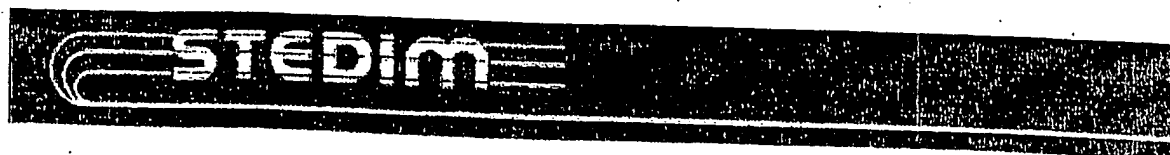
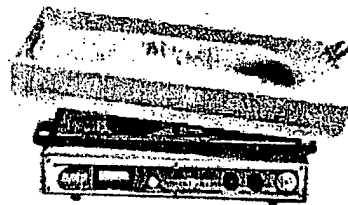
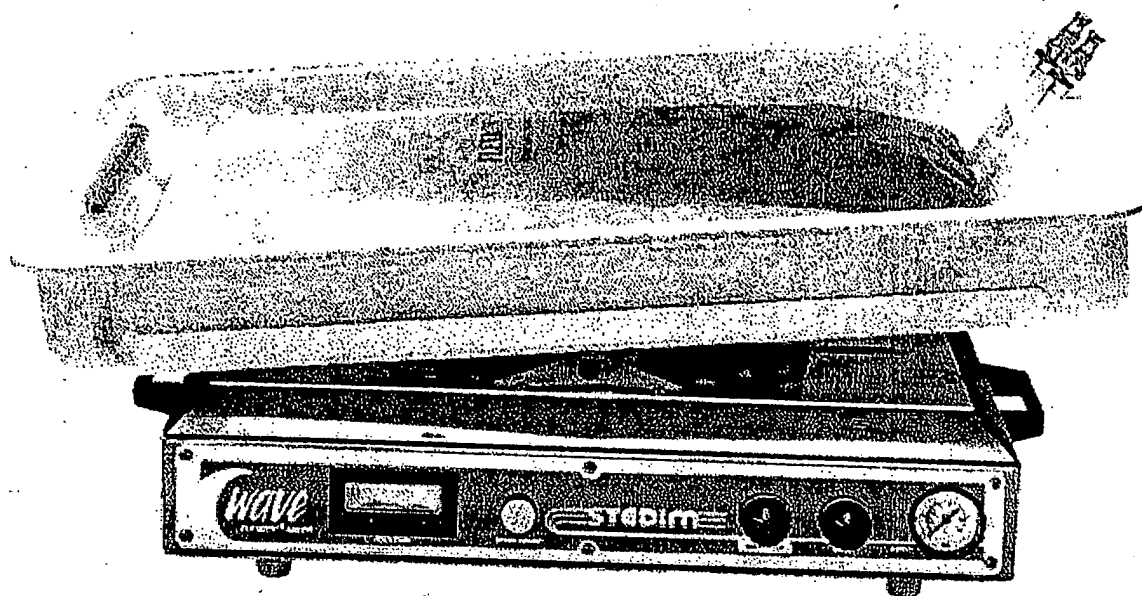


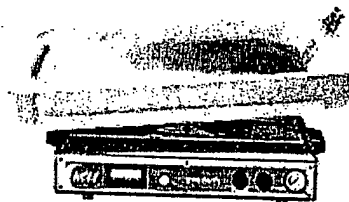
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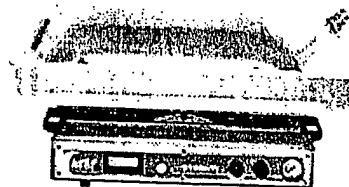
# The FLEXBOY Mixer



No more mixing tanks



No more cleaning



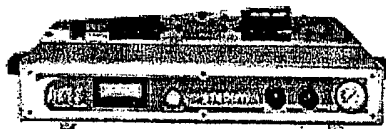
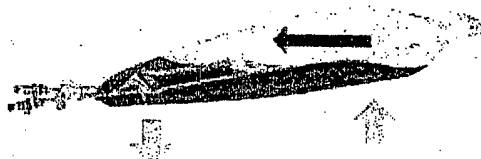
No more cross-contamination

Now you can mix aseptically in a closed  
FLEXBOY® Bag

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### THE FLEXBOY MIXER

- Makes it possible to mix, thaw, and dissolve inside a closed bag
- Wave agitation achieves complete homogeneity in seconds
- Non-invasive. No stirrers, no pump-around loops
- Ideal for biological applications – low fluid velocity limits shear forces for optimal mixing results



### APPLICATIONS

- Reconstitution of powders and concentrated media
- Buffer preparation
- In-process blending and homogenization
- In-process pooling
- Product mixing prior to sampling
- Product homogenization prior to filling
- Thawing of frozen media

## The Product

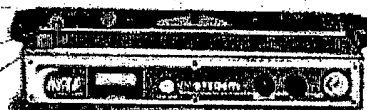
### THE FLEXBOY MIXER

- Rocking motion achieves complete homogeneity in seconds
- Adjustable angle and rocking rates
- Portable – can be used in hot and cold rooms. Generates no heat
- Well proven pneumatic mechanism. Exhaust air filtered
- Rugged stainless steel construction
- Available with integral heater and temperature controls for uniform and rapid thawing

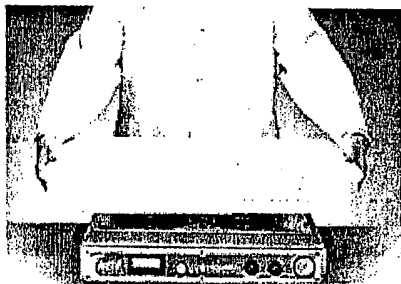


### THE FLEXBOY BAG

- FLEXBOY Bags – The world's most widely used bioprocessing bag system now with capabilities for sterile mixing
- Single use, sterile, ready-to-use. No waiting, no cleaning, no validation
- Manufactured from STEDIM 71 – an extremely strong, durable film with a high-gas barrier
- Available in the following sizes for use with the FLEXBOY MIXER: 5 L, 10 L, 20 L, 50 L



## Component Specifications



### THE FLEXBOY MIXER

**POWER:** 1 – 6 bar (15 – 90 psi) compressed at 0.2 cfm. No electrical

**SIZE:** 560 mm (22.05 inches) x 650 mm (25.59 inches) x 220 mm (8.6 inches)

**CAPACITY:** Can mix in FLEXBOYS up to 50 L

**MAXIMUM LOAD:** 40 Kg

**AIR COMPRESSOR:** Mini unit 100 VAC low noise

**WAVE WARMER:** for non-invasive thawing of frozen products. Capable up to 60°C. (FLEXBOY bags can be frozen to -70°C)

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## FLEXBOY BAGS

FLEXBOY BAGS are available from 5 L to 50 L sizes. All sizes available standard with 2 x 3/8 inch (9.5 mm) MPC couplers, plus sampling ports. CUSTOMIZATION: The FLEXBOY Bag range can be customized up to integrate:

- Screw cap ports, available with I.D. 38 mm (1.5 inch). Ideal for adding powder to be mixed and dissolved using the FLEXBOY Mixer.
- Sterilizing Filters
- C-FLEX tubing (range of diameters available). Platinum-cured silicone and PVC tubing also available
- Specific connectors such as mini tri-clamps

FLEXBOY TRAY: One molded fiberglass tray for 20 L FLEXBOY supplied with each Mixer. 50 L FLEXBOY trays also available.



Elegant in its simplicity, wave agitation technology – developed by Wave Biotech, produces homogeneity by inducing wave motions within the sealed bag.

- Wave technology is ideal for biological applications because the relatively low fluid velocity limits the shear forces and avoids foaming and product damage.

Wave agitation is achieved using gravity to accelerate the fluid inside the bag. The wave sweeps up solids and disperses them throughout the liquid. Angle and rate of rocking are adjustable for optimal mixing results.

- Frequent direction reversals are used to cause a reciprocating chaotic motion. This greatly increases the effectiveness of the mixing: homogeneity can typically be achieved within minutes.

A full discussion of Wave Technology is available in a reprint from *Genetic Engineering News*, entitled *Wave Mixer Provides Options for Sterile Mixing*, by Vijay Singh. To order a copy of the reprint, please click on the Contact Us button below.

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